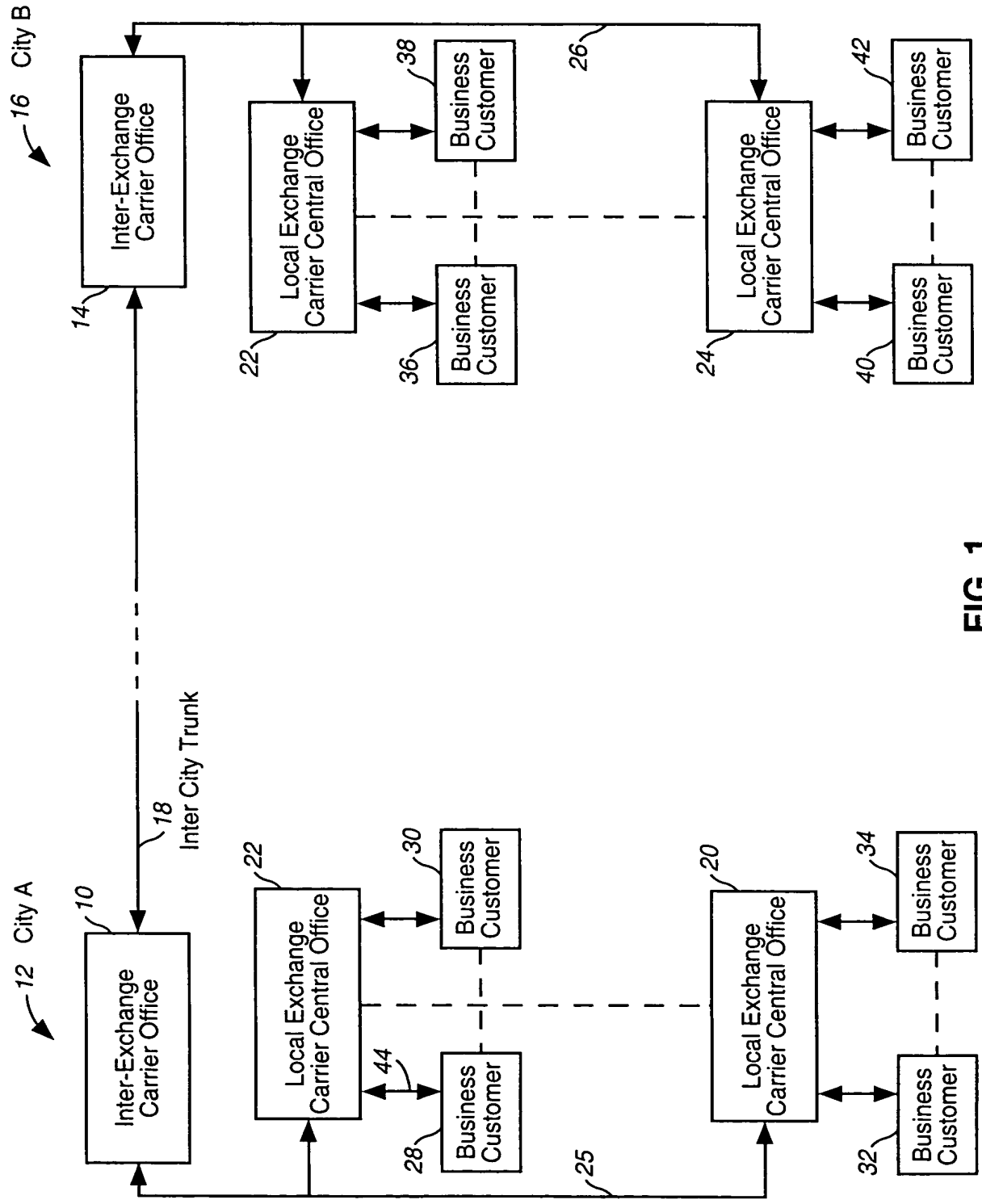

12 City A
16 City B
Inter-Exchange Carrier Office
10
14
18
Inter City Trunk
Local Exchange Carrier Central Office
22
24
20
25
26
Business Customer
28
30
32
34
36
38
40
42
44

FIG. 1

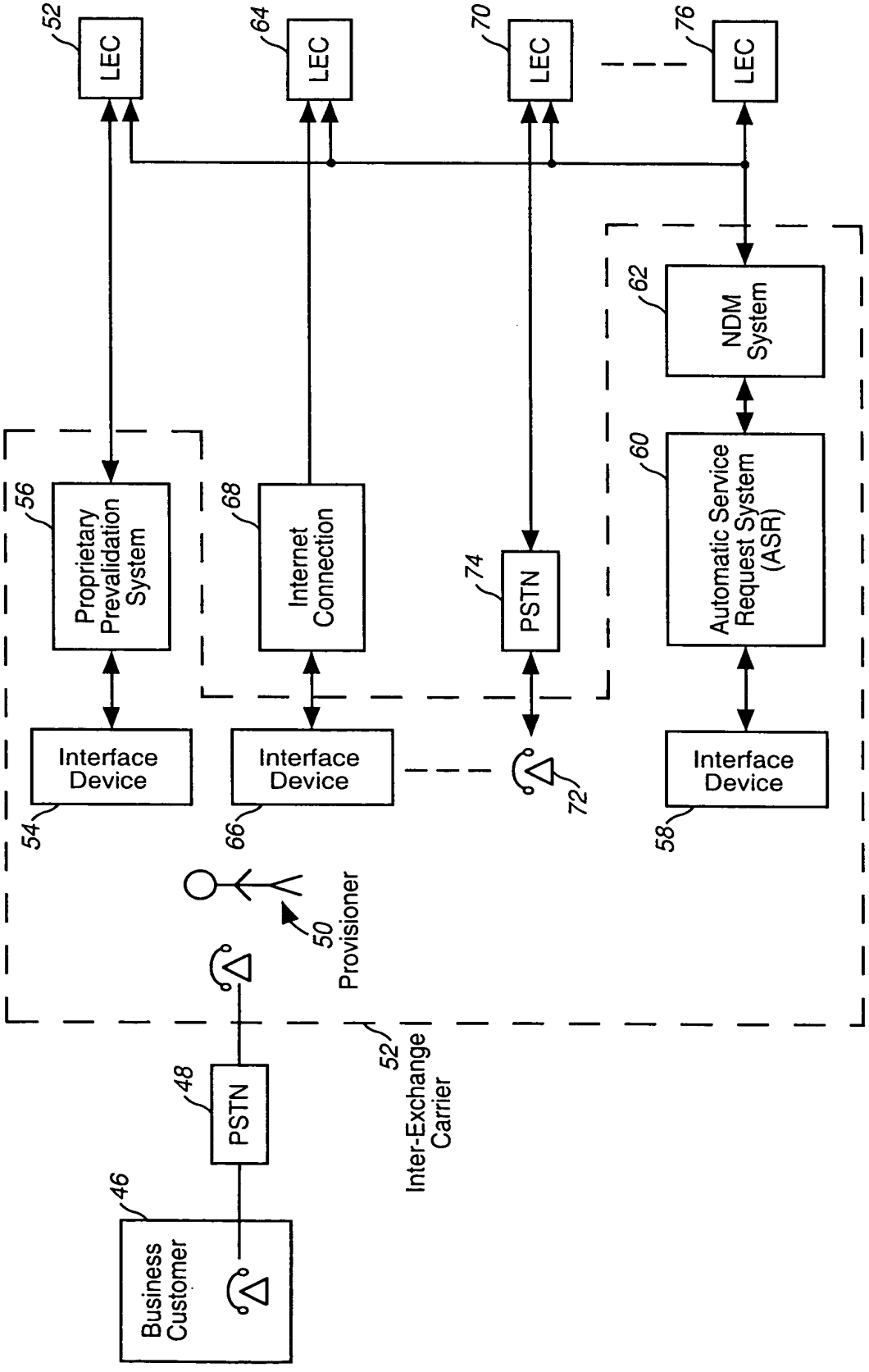

52
LEC
64
LEC
70
LEC
76
LEC
62
NDM System
60
Automatic Service Request System (ASR)
56
Proprietary Prevalidation System
68
Internet Connection
74
PSTN
72
Interface Device
54
Interface Device
66
Interface Device
58
50
Provisioner
52
Inter-Exchange Carrier
48
PSTN
46
Business Customer

FIG. 2

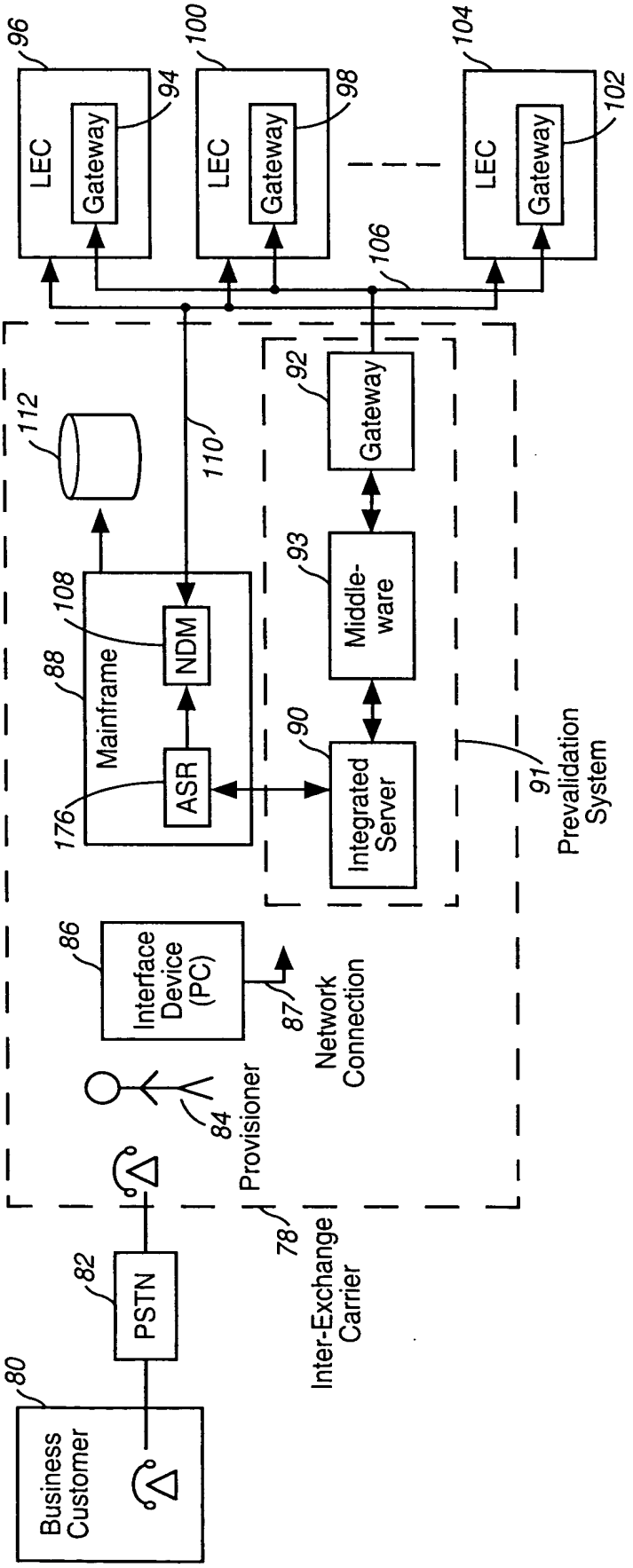

Business Customer
80
PSTN
82
Inter-Exchange Carrier
78
Provisioner
84
Interface Device (PC)
86
Network Connection
87
Mainframe
88
ASR
176
NDM
108
112
110
Integrated Server
90
Middle-ware
93
Gateway
92
Prevalidation System
91
106
LEC
Gateway
94
LEC
Gateway
98
LEC
Gateway
102
96
100
104

FIG. 3

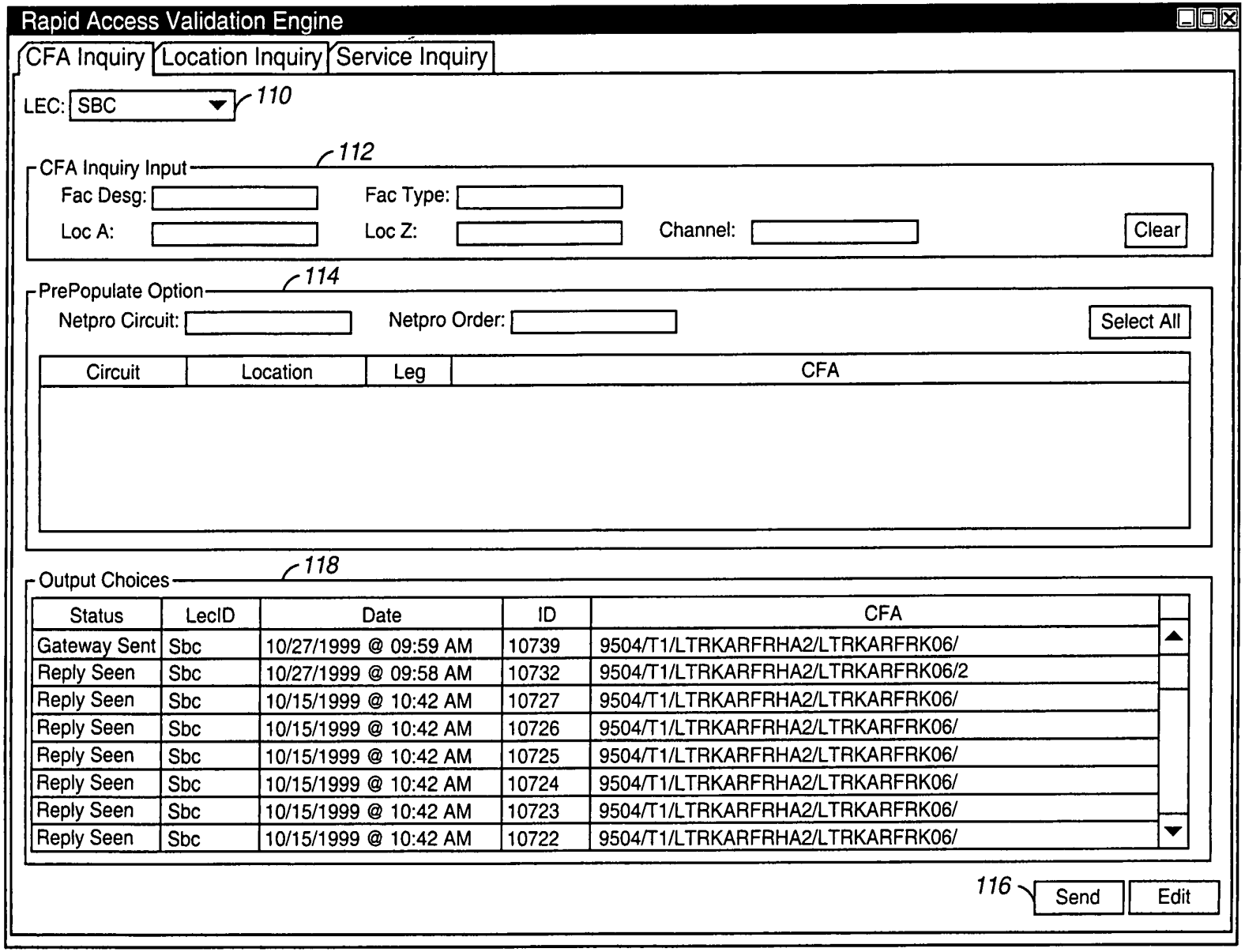

Rapid Access Validation Engine
CFA Inquiry
Location Inquiry
Service Inquiry
LEC: SBC
110
CFA Inquiry Input
112
Fac Desg:
Fac Type:
Loc A:
Loc Z:
Channel:
Clear
PrePopulate Option
114
Netpro Circuit:
Netpro Order:
Select All
Circuit
Location
Leg
CFA
Output Choices
118
Status
LecID
Date
ID
CFA
Gateway Sent Sbc 10/27/1999 @ 09:59 AM 10739 9504/T1/LTRKARFRHA2/LTRKARFRK06/
Reply Seen Sbc 10/27/1999 @ 09:58 AM 10732 9504/T1/LTRKARFRHA2/LTRKARFRK06/2
Reply Seen Sbc 10/15/1999 @ 10:42 AM 10727 9504/T1/LTRKARFRHA2/LTRKARFRK06/
Reply Seen Sbc 10/15/1999 @ 10:42 AM 10726 9504/T1/LTRKARFRHA2/LTRKARFRK06/
Reply Seen Sbc 10/15/1999 @ 10:42 AM 10725 9504/T1/LTRKARFRHA2/LTRKARFRK06/
Reply Seen Sbc 10/15/1999 @ 10:42 AM 10724 9504/T1/LTRKARFRHA2/LTRKARFRK06/
Reply Seen Sbc 10/15/1999 @ 10:42 AM 10723 9504/T1/LTRKARFRHA2/LTRKARFRK06/
Reply Seen Sbc 10/15/1999 @ 10:42 AM 10722 9504/T1/LTRKARFRHA2/LTRKARFRK06/
116
Send
Edit

FIG. 4

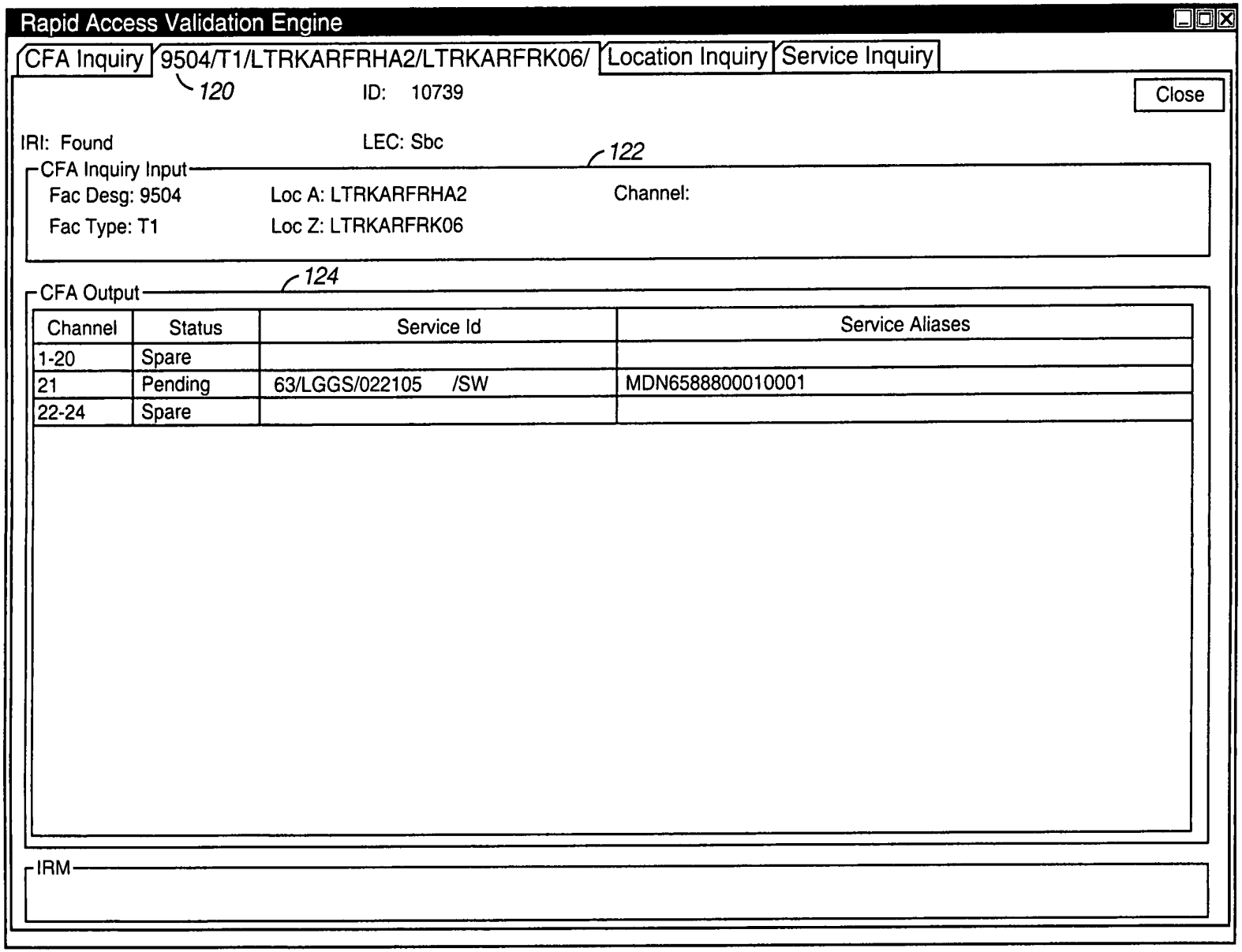

Rapid Access Validation Engine
CFA Inquiry
9504/T1/LTRKARFRHA2/LTRKARFRK06/
Location Inquiry
Service Inquiry
120
ID: 10739
Close
IRI: Found
LEC: Sbc
122
CFA Inquiry Input
Fac Desg: 9504
Loc A: LTRKARFRHA2
Channel:
Fac Type: T1
Loc Z: LTRKARFRK06
124
CFA Output
Channel
Status
Service Id
Service Aliases
1-20
Spare
21
Pending
63/LGGS/022105 /SW
MDN6588800010001
22-24
Spare
IRM

FIG. 5

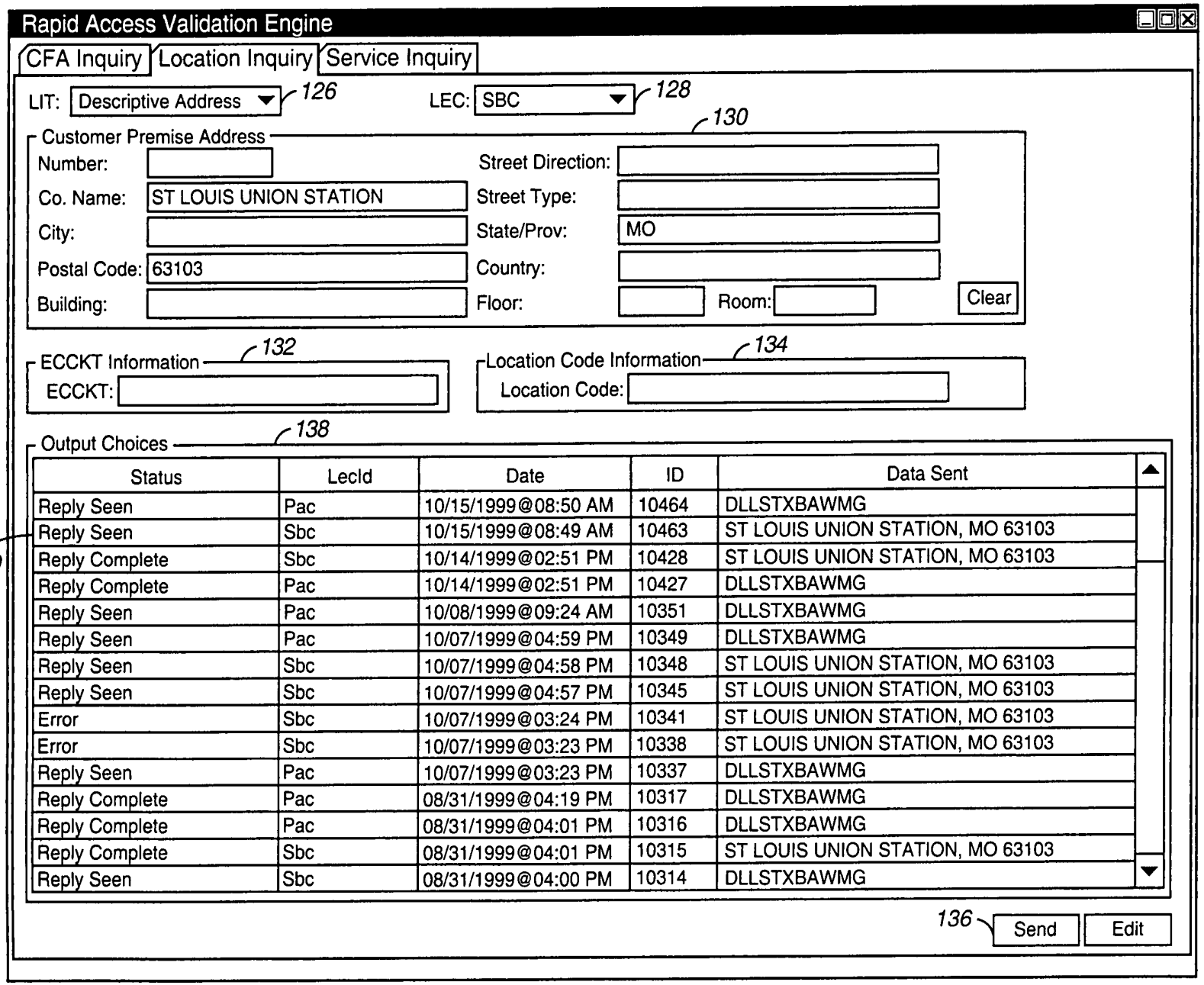
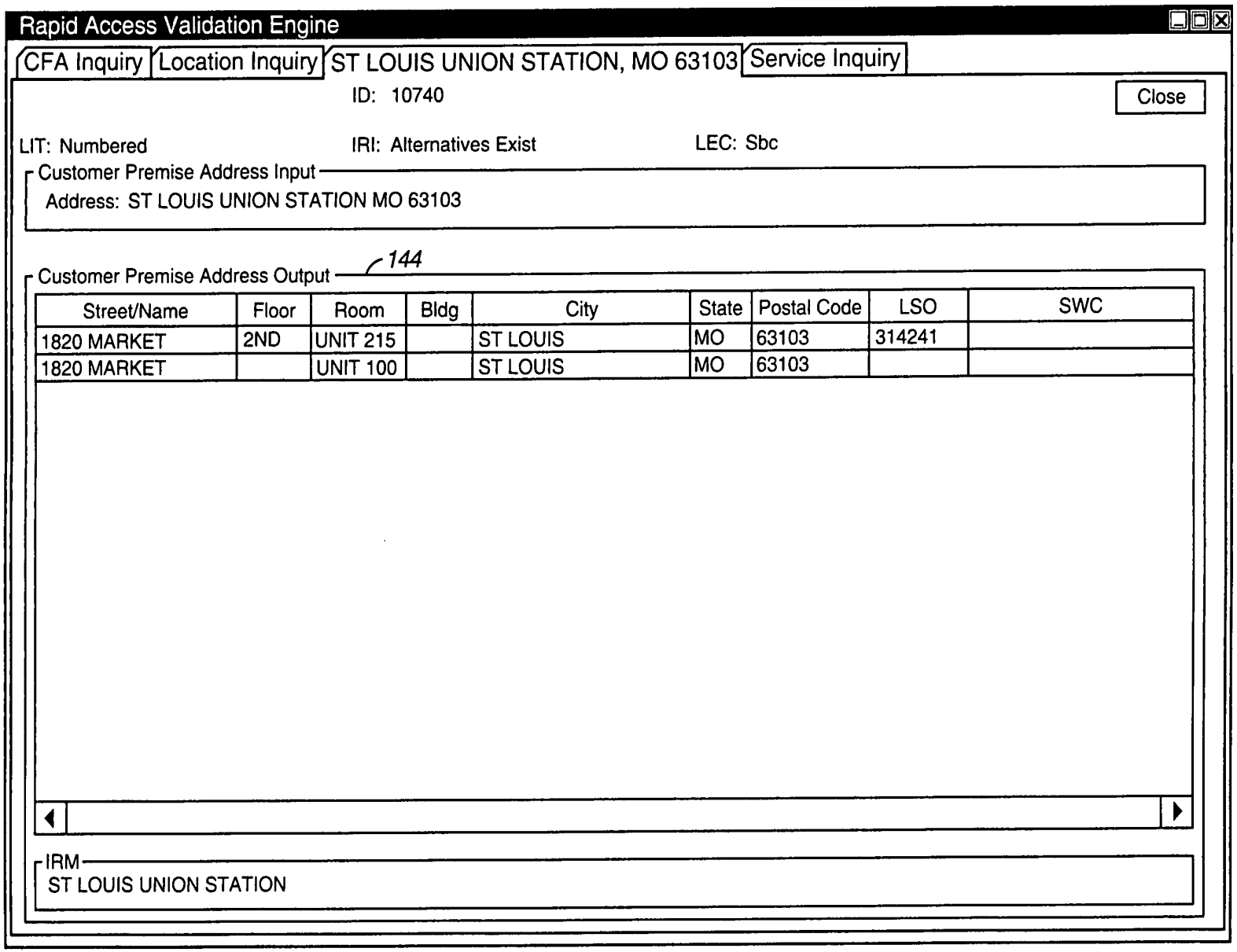

Rapid Access Validation Engine
CFA Inquiry
Location Inquiry
Service Inquiry
LIT: Descriptive Address
126
LEC: SBC
128
130
Customer Premise Address
Number:
Street Direction:
Co. Name: ST LOUIS UNION STATION
Street Type:
City:
State/Prov: MO
Postal Code: 63103
Country:
Building:
Floor:
Room:
Clear
ECCKT Information
132
ECCKT:
Location Code Information
134
Location Code:
Output Choices
138
Status
LecId
Date
ID
Data Sent
Reply Seen Pac 10/15/1999@08:50 AM 10464 DLLSTXBAWMG
Reply Seen Sbc 10/15/1999@08:49 AM 10463 ST LOUIS UNION STATION, MO 63103
Reply Complete Sbc 10/14/1999@02:51 PM 10428 ST LOUIS UNION STATION, MO 63103
Reply Complete Pac 10/14/1999@02:51 PM 10427 DLLSTXBAWMG
Reply Seen Pac 10/08/1999@09:24 AM 10351 DLLSTXBAWMG
Reply Seen Pac 10/07/1999@04:59 PM 10349 DLLSTXBAWMG
Reply Seen Sbc 10/07/1999@04:58 PM 10348 ST LOUIS UNION STATION, MO 63103
Reply Seen Sbc 10/07/1999@04:57 PM 10345 ST LOUIS UNION STATION, MO 63103
Error Sbc 10/07/1999@03:24 PM 10341 ST LOUIS UNION STATION, MO 63103
Error Sbc 10/07/1999@03:23 PM 10338 ST LOUIS UNION STATION, MO 63103
Reply Seen Pac 10/07/1999@03:23 PM 10337 DLLSTXBAWMG
Reply Complete Pac 08/31/1999@04:19 PM 10317 DLLSTXBAWMG
Reply Complete Pac 08/31/1999@04:01 PM 10316 DLLSTXBAWMG
Reply Complete Sbc 08/31/1999@04:01 PM 10315 ST LOUIS UNION STATION, MO 63103
Reply Seen Sbc 08/31/1999@04:00 PM 10314 DLLSTXBAWMG
140
136
Send
Edit

FIG. 6


Rapid Access Validation Engine
CFA Inquiry
Location Inquiry
ST LOUIS UNION STATION, MO 63103
Service Inquiry
ID: 10740
Close
LIT: Numbered
IRI: Alternatives Exist
LEC: Sbc
Customer Premise Address Input
Address: ST LOUIS UNION STATION MO 63103
Customer Premise Address Output
144
Street/Name | Floor | Room | Bldg | City | State | Postal Code | LSO | SWC
1820 MARKET | 2ND | UNIT 215 | | ST LOUIS | MO | 63103 | 314241 |
1820 MARKET | | UNIT 100 | | ST LOUIS | MO | 63103 | |
IRM
ST LOUIS UNION STATION

7/12

FIG. 7

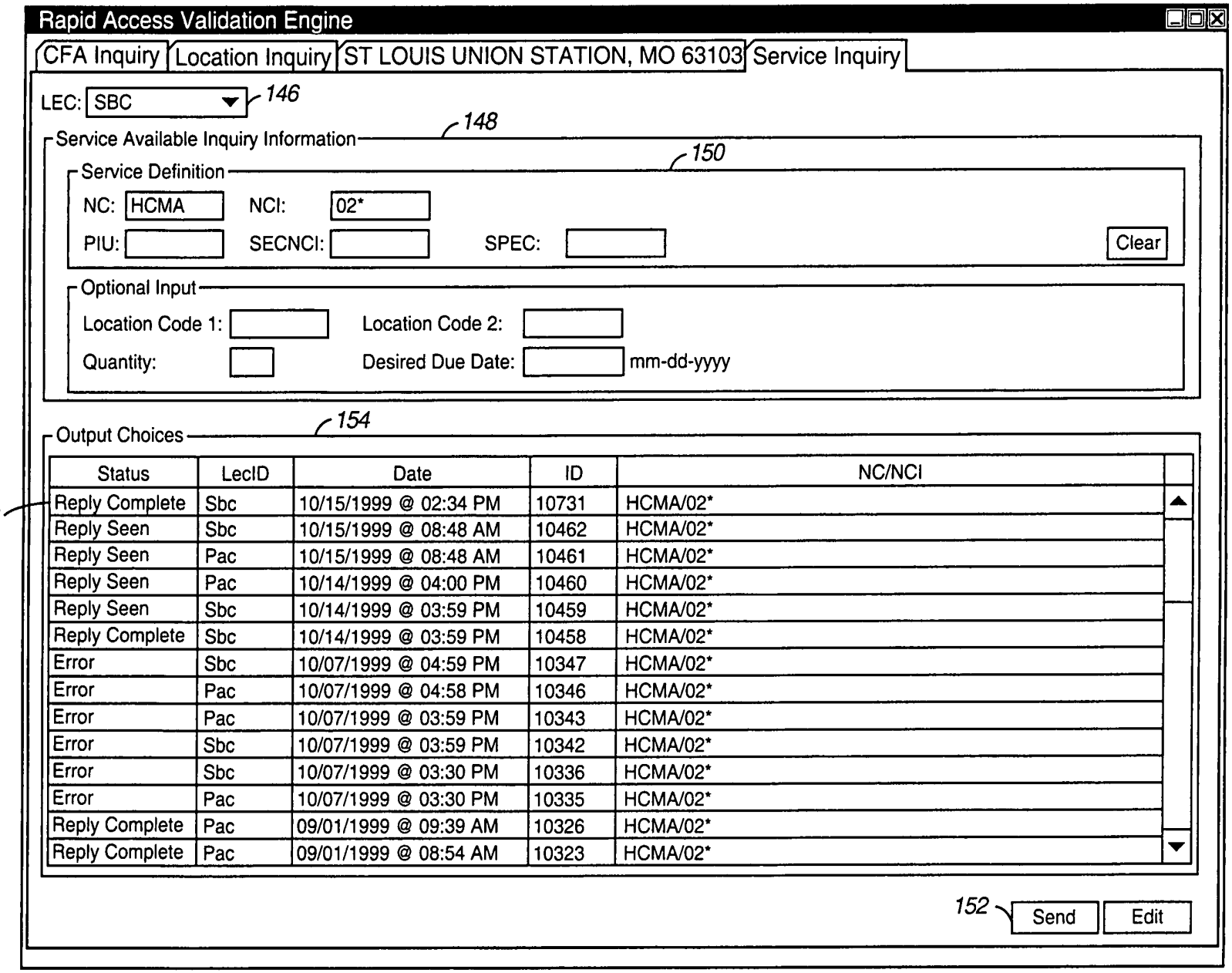

Rapid Access Validation Engine
CFA Inquiry
Location Inquiry
ST LOUIS UNION STATION, MO 63103
Service Inquiry
LEC: SBC
146
148
Service Available Inquiry Information
150
Service Definition
NC: HCMA
NCI: 02*
PIU:
SECNCI:
SPEC:
Clear
Optional Input
Location Code 1:
Location Code 2:
Quantity:
Desired Due Date:
mm-dd-yyyy
154
Output Choices
156
Status | LecID | Date | ID | NC/NCI
Reply Complete | Sbc | 10/15/1999 @ 02:34 PM | 10731 | HCMA/02*
Reply Seen | Sbc | 10/15/1999 @ 08:48 AM | 10462 | HCMA/02*
Reply Seen | Pac | 10/15/1999 @ 08:48 AM | 10461 | HCMA/02*
Reply Seen | Pac | 10/14/1999 @ 04:00 PM | 10460 | HCMA/02*
Reply Seen | Sbc | 10/14/1999 @ 03:59 PM | 10459 | HCMA/02*
Reply Complete | Sbc | 10/14/1999 @ 03:59 PM | 10458 | HCMA/02*
Error | Sbc | 10/07/1999 @ 04:59 PM | 10347 | HCMA/02*
Error | Pac | 10/07/1999 @ 04:58 PM | 10346 | HCMA/02*
Error | Pac | 10/07/1999 @ 03:59 PM | 10343 | HCMA/02*
Error | Sbc | 10/07/1999 @ 03:59 PM | 10342 | HCMA/02*
Error | Sbc | 10/07/1999 @ 03:30 PM | 10336 | HCMA/02*
Error | Pac | 10/07/1999 @ 03:30 PM | 10335 | HCMA/02*
Reply Complete | Pac | 09/01/1999 @ 09:39 AM | 10326 | HCMA/02*
Reply Complete | Pac | 09/01/1999 @ 08:54 AM | 10323 | HCMA/02*
152
Send
Edit

FIG. 8

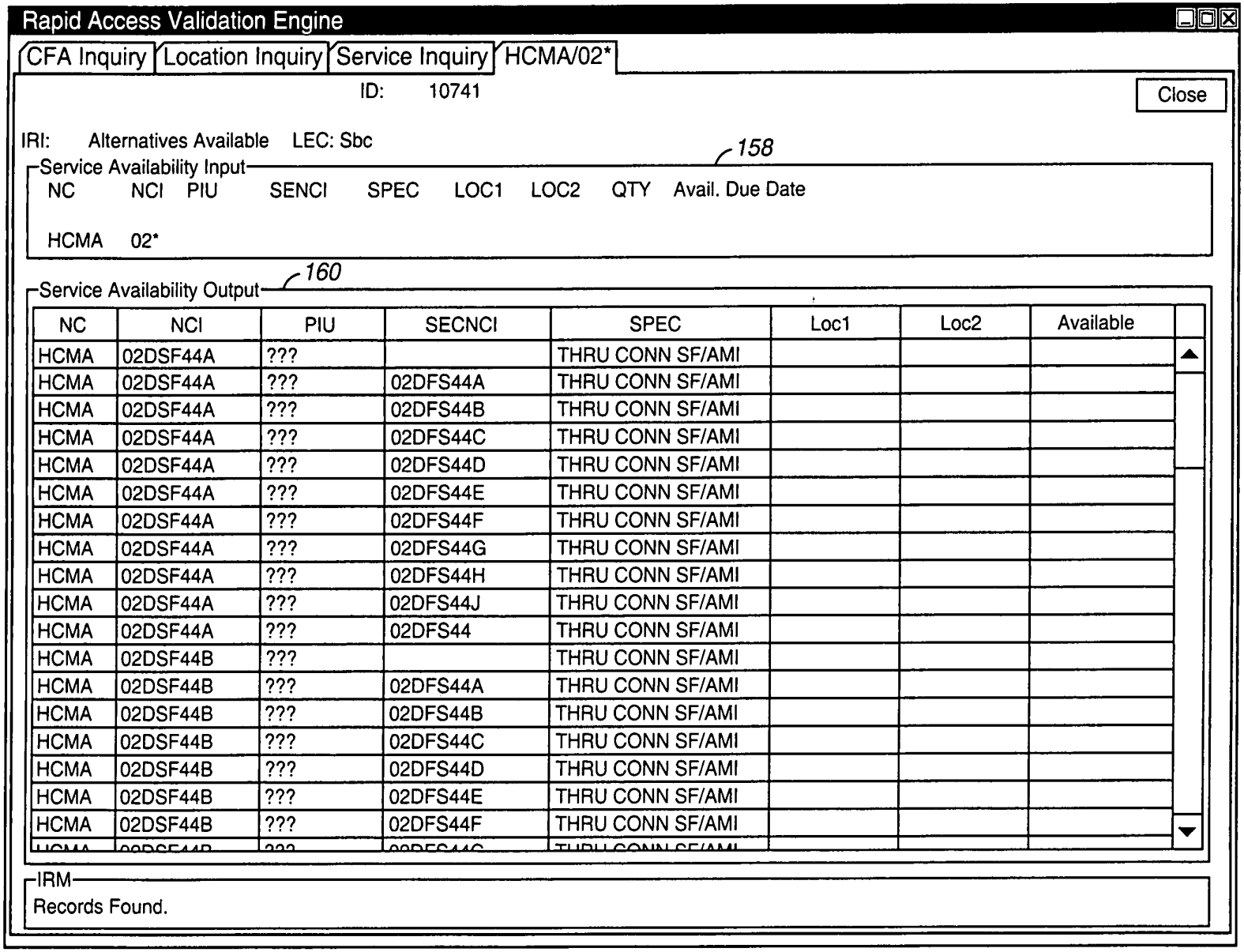

Rapid Access Validation Engine
CFA Inquiry
Location Inquiry
Service Inquiry
HCMA/02*
ID: 10741
Close
IRI: Alternatives Available LEC: Sbc
158
Service Availability Input
NC NCI PIU SENCI SPEC LOC1 LOC2 QTY Avail. Due Date
HCMA 02*
160
Service Availability Output
NC NCI PIU SECNCI SPEC Loc1 Loc2 Available
HCMA 02DSF44A ??? THRU CONN SF/AMI
HCMA 02DSF44A ??? 02DFS44A THRU CONN SF/AMI
HCMA 02DSF44A ??? 02DFS44B THRU CONN SF/AMI
HCMA 02DSF44A ??? 02DFS44C THRU CONN SF/AMI
HCMA 02DSF44A ??? 02DFS44D THRU CONN SF/AMI
HCMA 02DSF44A ??? 02DFS44E THRU CONN SF/AMI
HCMA 02DSF44A ??? 02DFS44F THRU CONN SF/AMI
HCMA 02DSF44A ??? 02DFS44G THRU CONN SF/AMI
HCMA 02DSF44A ??? 02DFS44H THRU CONN SF/AMI
HCMA 02DSF44A ??? 02DFS44J THRU CONN SF/AMI
HCMA 02DSF44A ??? 02DFS44 THRU CONN SF/AMI
HCMA 02DSF44B ??? THRU CONN SF/AMI
HCMA 02DSF44B ??? 02DFS44A THRU CONN SF/AMI
HCMA 02DSF44B ??? 02DFS44B THRU CONN SF/AMI
HCMA 02DSF44B ??? 02DFS44C THRU CONN SF/AMI
HCMA 02DSF44B ??? 02DFS44D THRU CONN SF/AMI
HCMA 02DSF44B ??? 02DFS44E THRU CONN SF/AMI
HCMA 02DSF44B ??? 02DFS44F THRU CONN SF/AMI
IRM
Records Found.

FIG. 9

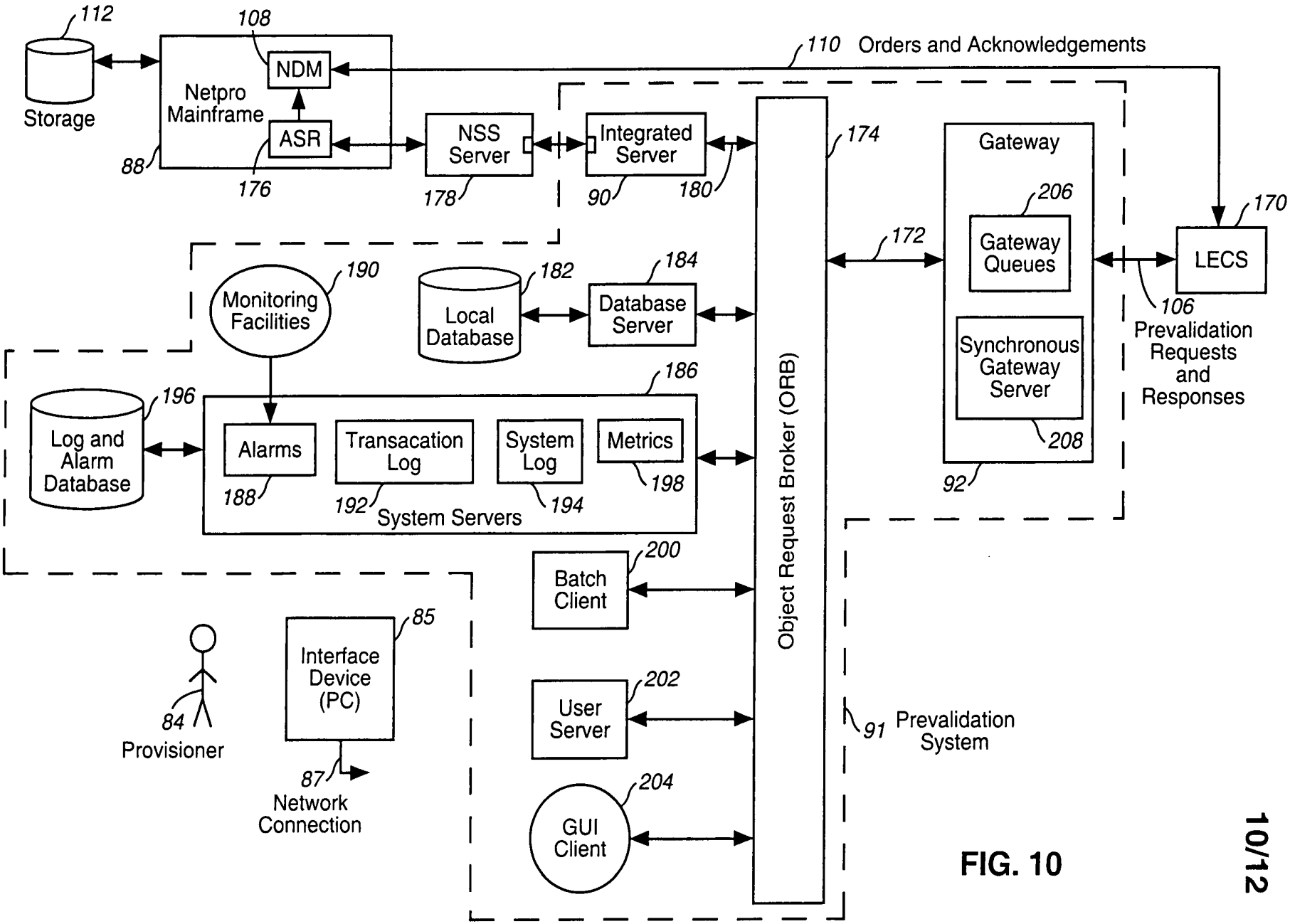

112
Storage
108
NDM
Netpro Mainframe
ASR
88
176
110 Orders and Acknowledgements
NSS Server
178
Integrated Server
90
180
174
Gateway
206
Gateway Queues
Synchronous Gateway Server
208
92
172
170
LECS
106
Prevalidation Requests and Responses
190
Monitoring Facilities
182
Local Database
184
Database Server
186
196
Log and Alarm Database
Alarms
188
Transacation Log
192
System Log
194
Metrics
198
System Servers
Object Request Broker (ORB)
200
Batch Client
85
Interface Device (PC)
84
Provisioner
87
Network Connection
202
User Server
204
GUI Client
91 Prevalidation System

FIG. 10

H/PSWB/1999-07-22
C/9501/T1//JNBOARMAK03/JNBOAR10W02
C/9532/T1//LTRKARFRHA2/LTRKARFRK06
222 CFA
C/9504/T1//LTRKARFRHA2/LTRKARFRK06
C/9528/T1//LTRKARFR/LTRKARFRHA2
C/9533/T1//LTRKARFRHA2/LTRKARFRK06
220 CFAs
C/9506/T1//FYVLARAFWCC/FYVLARHIK06
C/9535/T1//LTRKARFRHA2/LTRKARFRK06
226 CFA
C/9513/T1ZF//LTRKARFRHA2/LTRKARFRK06
C/9512/T1ZF//LTRKARFRHA2/LTRKARFRK06
C/9503/T1//FYVLARAFWCC/FYVLARHI

FIG. 11

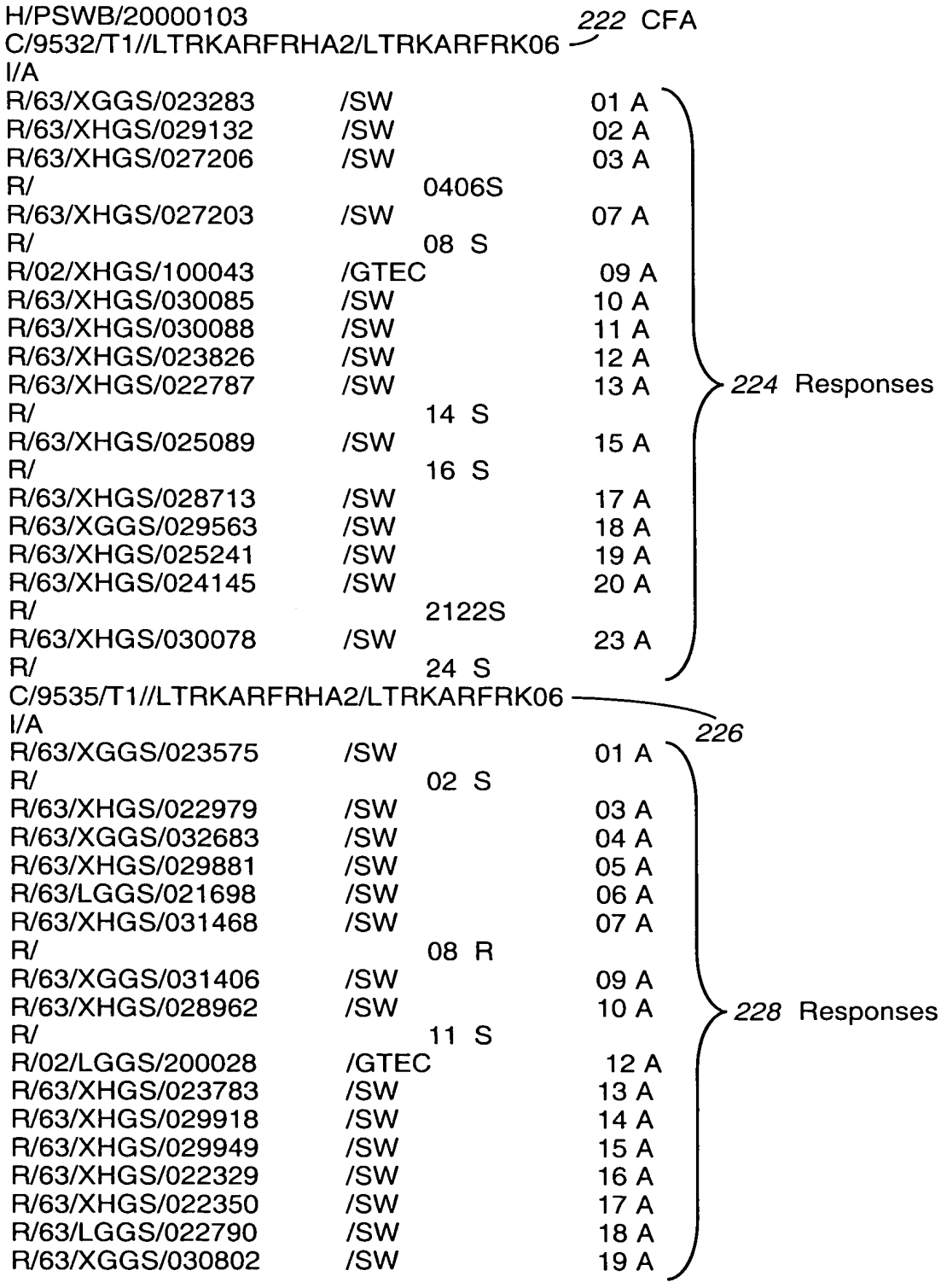

H/PSWB/20000103
222 CFA
C/9532/T1//LTRKARFRHA2/LTRKARFRK06
I/A
R/63/XGGS/023283 /SW 01 A
R/63/XHGS/029132 /SW 02 A
R/63/XHGS/027206 /SW 03 A
R/ 0406S
R/63/XHGS/027203 /SW 07 A
R/ 08 S
R/02/XHGS/100043 /GTEC 09 A
R/63/XHGS/030085 /SW 10 A
R/63/XHGS/030088 /SW 11 A
R/63/XHGS/023826 /SW 12 A
R/63/XHGS/022787 /SW 13 A
R/ 14 S
R/63/XHGS/025089 /SW 15 A
R/ 16 S
R/63/XHGS/028713 /SW 17 A
R/63/XGGS/029563 /SW 18 A
R/63/XHGS/025241 /SW 19 A
R/63/XHGS/024145 /SW 20 A
R/ 2122S
R/63/XHGS/030078 /SW 23 A
R/ 24 S
224 Responses
C/9535/T1//LTRKARFRHA2/LTRKARFRK06
226
I/A
R/63/XGGS/023575 /SW 01 A
R/ 02 S
R/63/XHGS/022979 /SW 03 A
R/63/XGGS/032683 /SW 04 A
R/63/XHGS/029881 /SW 05 A
R/63/LGGS/021698 /SW 06 A
R/63/XHGS/031468 /SW 07 A
R/ 08 R
R/63/XGGS/031406 /SW 09 A
R/63/XHGS/028962 /SW 10 A
R/ 11 S
R/02/LGGS/200028 /GTEC 12 A
R/63/XHGS/023783 /SW 13 A
R/63/XHGS/029918 /SW 14 A
R/63/XHGS/029949 /SW 15 A
R/63/XHGS/022329 /SW 16 A
R/63/XHGS/022350 /SW 17 A
R/63/LGGS/022790 /SW 18 A
R/63/XGGS/030802 /SW 19 A
228 Responses

FIG. 12